

6/28/2016

McGinnis and Associates  
2655 Rose Mist  
Reno, NV 89521  
Attn: Dietrick McGinnis

OrderID: 1606226

Dear: Dietrick McGinnis

This is to transmit the attached analytical report. The analytical data and information contained therein was generated using specified or selected methods contained in references, such as Standard Methods for the Examination of Water and Wastewater, online edition, Methods for Determination of Organic Compounds in Drinking Water, EPA-600/4-79-020, and Test Methods for Evaluation of Solid Waste, Physical/Chemical Methods (SW846) Third Edition.

The samples were received by WETLAB-Western Environmental Testing Laboratory in good condition on 6/7/2016. Additional comments are located on page 2 of this report.

If you should have any questions or comments regarding this report, please do not hesitate to call.

Sincerely,



Jennifer Delaney  
QA Specialist

**SPARKS**

475 E. Greg Street, Suite 119  
Sparks, Nevada 89431  
tel (775) 355-0202  
fax (775) 355-0817  
EPA LAB ID: NV00925 - ELAP No: 2523

**ELKO**

1084 Lamoille Hwy  
Elko, Nevada 89801  
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EPA LAB ID: NV00926

**LAS VEGAS**

3230 Polaris Ave. Suite 4  
Las Vegas, Nevada 89102  
tel (702) 475-8899  
fax (702) 622-2868  
EPA LAB ID: NV00932

# Western Environmental Testing Laboratory

## Report Comments

McGinnis and Associates - 1606226

### **Specific Report Comments**

None

### **Subcontracting Comments**

The analysis for Selenium was performed by Energy Laboratories of Billings, MT. Their report is attached.

### **Report Legend**

- B -- Blank contamination; Analyte detected above the method reporting limit in an associated blank
- D -- Due to the sample matrix dilution was required in order to properly detect and report the analyte. The reporting limit has been adjusted accordingly.
- HT -- Sample analyzed beyond the accepted holding time
- J -- The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
- M -- The matrix spike/matrix spike duplicate (MS/MSD) values for the analysis of this parameter were outside acceptance criteria due to probable matrix interference. The reported result should be considered an estimate.
- N -- There was insufficient sample available to perform a spike and/or duplicate on this analytical batch.
- NC -- Not calculated due to matrix interference
- QD -- The sample duplicate or matrix spike duplicate analysis demonstrated sample imprecision. The reported result should be considered an estimate.
- QL -- The result for the laboratory control sample (LCS) was outside WETLAB acceptance criteria and reanalysis was not possible. The reported data should be considered an estimate.
- S -- Surrogate recovery was outside of laboratory acceptance limits due to matrix interference. The associated blank and LCS surrogate recovery was within acceptance limits
- SC -- Spike recovery not calculated. Sample concentration >4X the spike amount; therefore, the spike could not be adequately recovered
- U -- The analyte was analyzed for, but was not detected above the level of the reported sample reporting/quantitation limit

### **General Lab Comments**

Per method recommendation (section 4.4), Samples analyzed by methods EPA 300.0 and EPA 300.1 have been filtered prior to analysis.

The following is an interpretation of the results from EPA method 9223B:

A result of zero (0) indicates absence for both coliform and Escherichia coli meaning the water meets the microbiological requirements of the U.S. EPA Safe Drinking Water Act (SDWA). A result of one (1) for either test indicates presence and the water does not meet the SDWA requirements. Waters with positive tests should be disinfected by a certified water treatment operator and retested.

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# Western Environmental Testing Laboratory

## Analytical Report

McGinnis and Associates

2655 Rose Mist

Reno, NV 89521

Attn: Dietrick McGinnis

Phone: (775) 853-0449 Fax:

PO\Project: YPT

Date Printed: 6/28/2016

OrderID: 1606226

Customer Sample ID: 239

Collect Date/Time: 6/6/2016 11:30

WETLAB Sample ID: 1606226-001

Receive Date: 6/7/2016 17:50

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
<b><u>General Chemistry</u></b>							
Total Phosphorous as P	SM 4500-P E	ND	mg/L	1	0.010	6/16/2016	NV00925
Total Dissolved Solids (TDS)	SM 2540C	930	mg/L	1	10	6/13/2016	NV00925
<b><u>Trace Metals by ICP-MS</u></b>							
Arsenic	EPA 200.8	0.033	mg/L	1	0.0050	6/14/2016	NV00925
Uranium	EPA 200.8	ND	mg/L	1	0.0050	6/14/2016	NV00925
<b><u>Sample Preparation</u></b>							
Trace Metals Digestion	EPA 200.2	Complete		1		6/14/2016	NV00925
<b><u>Subcontracted Analyses</u></b>							
Various Metals (Subcontracted)	N/A	See Attached		1			

DF=Dilution Factor, RL=Reporting Limit, ND=Not Detected or &lt;RL

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## Western Environmental Testing Laboratory

### QC Report

QCBatchID	QCType	Parameter	Method	Result	Units
QC16060607	Blank 1	Arsenic, Dissolved	EPA 200.8	ND	mg/L
		Uranium, Dissolved	EPA 200.8	ND	mg/L
QC16060639	Blank 1	Total Dissolved Solids (TDS)	SM 2540C	ND	mg/L
QC16060670	Blank 1	Total Phosphorous as P	SM 4500-P E	ND	mg/L

QCBatchID	QCType	Parameter	Method	Result	Actual	% Recovery	Units
QC16060607	LCS 1	Arsenic	EPA 200.8	0.0503	0.050	101	mg/L
		Uranium	EPA 200.8	0.0101	0.010	100	mg/L
QC16060639	LCS 1	Total Dissolved Solids (TDS)	SM 2540C	144	150	96	mg/L
QC16060639	LCS 2	Total Dissolved Solids (TDS)	SM 2540C	149	150	99	mg/L
QC16060670	LCS 1	Total Phosphorous as P	SM 4500-P E	0.270	0.250	108	mg/L

QCBatchID	QCType	Parameter	Method	Duplicate Sample	Sample Result	Duplicate Result	Units	RPD
QC16060639	Duplicate	Total Dissolved Solids (TDS)	SM 2540C	1606226-001	928	920	mg/L	1 %
QC16060639	Duplicate	Total Dissolved Solids (TDS)	SM 2540C	1606326-004	199	189	mg/L	5 %

QCBatchID	QCType	Parameter	Method	Spike Sample	Sample Result	MS Result	MSD Result	Spike Value	Units	MS % Rec.	MSD % Rec.	RPD
QC16060607	MS 1	Arsenic, Dissolved	EPA 200.8	1606337-001	ND	0.0561	0.0556	0.050	mg/L	109	108	1%
		Uranium, Dissolved	EPA 200.8	1606337-001	ND	0.0113	0.0109	0.010	mg/L	109	104	4%
QC16060670	MS 1	Total Phosphorous as P	SM 4500-P E	1606212-009	0.011	0.286	0.302	0.250	mg/L	110	116	5%

DF=Dilution Factor, RL=Reporting Limit, ND=Not Detected or &lt;RL

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## ANALYTICAL SUMMARY REPORT

June 27, 2016

Western Environmental Testing Laboratory  
475 E Greg St Ste 119  
Sparks, NV 89431-8517

Work Order: B16061533

Project Name: 1606226

Energy Laboratories Inc Billings MT received the following 1 sample for Western Environmental Testing Laboratory on 6/17/2016 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B16061533-001	1606226-001, 239	06/06/16 11:30	06/17/16	Surface Water	Metals by ICP/ICPMS, Total Metals Preparation by EPA 200.2

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:



## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** Western Environmental Testing Laboratory  
**Project:** 1606226  
**Lab ID:** B16061533-001  
**Client Sample ID:** 1606226-001, 239

**Report Date:** 06/27/16  
**Collection Date:** 06/06/16 11:30  
**DateReceived:** 06/17/16  
**Matrix:** Surface Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Selenium	ND	ug/L		0.5		E200.8	06/21/16 21:34 / mas

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Western Environmental Testing Laboratory

**Report Date:** 06/27/16

**Project:** 1606226

**Work Order:** B16061533

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.8	Analytical Run: ICPMS203-B_160621A								
Lab ID:	QCS	Initial Calibration Verification Standard								06/21/16 12:18
Selenium		0.0514	mg/L	0.0050	103	90	110			
Method:	E200.8									Batch: 100178
Lab ID:	MB-100178	Method Blank				Run: ICPMS203-B_160621A			06/21/16 19:52	
Selenium		ND	mg/L	0.0002						
Lab ID:	LCS-100178	Laboratory Control Sample				Run: ICPMS203-B_160621A			06/21/16 21:40	
Selenium		0.496	mg/L	0.0050	99	85	115			
Lab ID:	B16061511-016BMS3	Sample Matrix Spike				Run: ICPMS203-B_160621A			06/21/16 21:44	
Selenium		0.439	mg/L	0.0010	88	70	130			
Lab ID:	B16061511-016BMSD	Sample Matrix Spike Duplicate				Run: ICPMS203-B_160621A			06/21/16 22:05	
Selenium		0.453	mg/L	0.0010	91	70	130	3.1	20	

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## Work Order Receipt Checklist

Western Environmental Testing Laboratory B16061533

Login completed by: Cindy Rohrer

Date Received: 6/17/2016

Reviewed by: BL2000\lcardreau

Received by: dlf

Reviewed Date: 6/21/2016

Carrier name: UPS

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No *	Not Present *
Custody seals intact on all shipping container(s)/cooler(s)?	Yes *	No *	Not Present <input checked="" type="checkbox"/>
Custody seals intact on all sample bottles?	Yes *	No *	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No *	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No *	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No *	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No *	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No *	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No *	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No *	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes *	No <input checked="" type="checkbox"/>	Not Applicable *
Container/Temp Blank temperature:	19.0°C No Ice		
Water - VOA vials have zero headspace?	Yes *	No *	Not Applicable <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No *	Not Applicable *

---

### Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

---

### Contact and Corrective Action Comments:

None



# CHAIN OF CUSTODY RECORD

<b>Western Environmental Testing Laboratory</b> 475 E. Greg Street #119 Sparks, NV 89431 Logan Greenwood Ph: (775) 355-0202 LoganG@wetlaboratory.com Fax: (775) 355-0817		Total # of sample containers 1	Subcontractor <i>Energy</i>	All Samples Refrigerated?: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
Sample Receipt Condition:		YPT		Compliance: Y <input type="checkbox"/> N <input checked="" type="checkbox"/> CA Write ON: Y <input type="checkbox"/> N <input checked="" type="checkbox"/> QC: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Water System #:
Temperature:		Job ID 1606226	Notes: <i>RL 0.5 ppb</i> <i>call Hollie with questions</i>	

Sample Date/Time	Sample ID - Site ID	Matrix	Parameter	Sample Number
6/6/2016	239 -	Surface Water	<del>                    </del>	1606226-001
11:30 AM			<i>selenium</i>	

*Bill 061533-001*

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		
<i>[Signature]</i>	<i>6-14-16</i>	<i>1:10</i>	<i>UPS</i>		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		
			<i>[Signature]</i>	<i>6/17/16</i>	<i>0915</i>

*19.0*  
*UPS Grd*  
*NO Seab*



tel (702) 475-8899 | fax (702) 776-6152

Page 1 of 1

Email

NO OF CONTAINERS	SAMPLE TYPE**
1	1
2	2
3	3
4	4
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100	100

☒ Yes ☐ No

Spl No.	
Selenium	
Arsenic	
Uranium solid	
Total Dissolved	
Total Phos	

**Instructions/Comments/Special Requirements:**

**Sample Matrix Key\*\*** DW = Drinking Water WW = Wastewater SW = Surface Water MW = Monitoring Well SD = Solid/Sludge SO = Soil HW = Hazardous Waste OTHER:

**\*SAMPLE PRESERVATIVES:** 1=Unpreserved 2=H<sub>2</sub>SO<sub>4</sub> 3=NaOH 4=HCl 5=HNO<sub>3</sub> 6=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 7=ZnOAc+NaOH 8=HCl/VOA Vial

Temp	Custody Seal	# of Containers	DATE	TIME	Samples Relinquished By	Samples Received By
13.7°C	Y N None	2	6/7/16	17:20		
°C	Y N None					
°C	Y N None					
°C	Y N None					

**WETLAB'S Standard Terms and Conditions apply unless written agreements specify otherwise. Payment terms are Net 30.**

Client/Collector attests to the validity and authenticity of this (these) sample(s) and, is (are) aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636).                      initial

To the maximum extent permitted by law, the Client agrees to limit the liability of WETLAB for the Client's damages to the total compensation received, unless other agreements are made in writing. This limitation shall apply regardless of the cause of action or legal theory pled or asserted.

WETLAB will dispose of samples 90 days from sample receipt. Client may request a longer sample storage time for an additional fee.

Please contact your Project Manager for details.                      initials

301.2E

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